WHAT IS CLAIMED IS:

1. A method of tracking a network communication line by network probe terminal ("terminal agent") simulating a browser("original browser") activity of a given terminal comprising the steps of:

I. Accessing the network communication line;

II. Tracing TCP/IP data packets routed through the communication line;

III. Selecting TCP/IP data packets relating to a given IP address ("identified data packets");

IV. Selecting from the identified data packets current requests for new connections ("original requests");

V. Selecting from the identified data packets current web page components indicating new addresses ("new navigation components");

VI. Dividing the new navigation components into two categories;

    (f1)   embedded objects or frames ("false new components");

    (f2)   hyperlinks ("true new components ");

VII.   Dividing the original requests into "primary" or "secondary" requests according to the following criteria, respectively:

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(g1)   original requests matching true the new components, or

original requests failing to match any new connection components

and belonging to HTTP or POST type;

(g2)   original requests matching the false components or original

requests failing to match any new connection components and not

belonging to HTTP or post type;

VIII.   Selecting from the identified data packets, HTML data

files relating to primary requests ("respective primary

responses");

IX. Generating "virtual" secondary requests according to the

respective secondary responses;

X. Selecting from the identified data packets responses relating to

secondary virtual requests; ("respective secondary

responses"); and

XI. Simulating web page presentation on the terminal agent

according to the respective secondary responses.

2. The method of Claim 1 further comprising the steps of:

Selecting virtual secondary requests currently not matching any

respective original responses ("unanswered secondary requests ");

Retrieving content form local cache of terminal agent ("virtual

cache") if original browser local cache ("original cache") was used

relating to unanswered secondary requests;

- Simulating web page presentation on agent terminal according to data

relating to the unanswered secondary requests if the virtual cache

contains such data; and

- Displaying error massages at the respective places on the

agent terminal if the virtual cache does not contain data relating to the

unanswered secondary requests;

3.   The method of Claim 2 further comprising the step of:

Addressing via the communication line to appropriate Internet

server for receiving respective simulated responses relating to

unanswered secondary requests if the virtual cache does not contain

data, and displaying thereof.

4.   The method of Claim 1 further comprising the steps of:

Selecting from identified data packets data relating network

messages e.g. e-mail ("messages data");

Transforming the message data into text data file; and

Displaying text data file on terminal agent.

5.   The method of Claim 1 where in the net work is local-area network

(LAN) and the terminal is connected to the extended communication

line.

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6.   The method of Claim 1 wherein the communication line an is an
      external communication line e.g. telephone line, IZDN line, optical
      lines, etc. .

7.   The method of Claim 1 wherein the net work is a local-area network
      (LAN), and the terminal agent is situated in a location different from
      that of the given terminal.

8.   The method of Claim 1 wherein the given IP address is identified by the
      communication line provider (ISP).

9.   The method of Claim 1 wherein the given IP address is identified by the
      communication line owner.

10.   The method of Claim 1 wherein the given IP address are addresses of
      web site visitors and identified by a web site owner.

11.   A network probe terminal for tracking a network communication line and
      simulating a browser ("original browser") activity of a given terminal
      comprising of:

      I.   Connection means for accessing the network communication
           line;

      II. Monitoring means for tracing TCP/IP data packets routed
           through the communication line;

      III. First filtering module for selecting new connection requests
           ("original requests") and web page components indicating new

addresses ("new navigation components") out of TCP/IP data packets relating to a given IP address ("identified data packets");

IV. First Sorting means for dividing the new navigation components into two categories;

    (f1)   embedded objects or frames ("false new components");

    (f2)   hyperlinks ("true new components ");

V. Second Sorting means for dividing the original requests into "primary" or "secondary" requests according to the following criteria, respectively:

    (g1)   original requests matching the true new components, or original requests failing to match any new connection components and belonging to HTTP or POST type;

    (g2)   original requests matching the false components or original requests failing to match any new connection components and not belonging to HTTP or post type;

VI. Classifying module for selecting HTML data files relating to primary requests ("primary responses") from the identified data packets;

VII.   Request generating module for creating "virtual" secondary requests according to the respective secondary responses;

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VIII.   Second filtering module for selecting responses relating

to secondary virtual requests; ("secondary responses") from

identified data packets; and

IX. Displaying means for simulating web page presentation on the

terminal agent according to the secondary responses.

12.   The network probe terminal of Claim 11 wherein the filtering

module comprises means for selecting virtual secondary requests

currently not matching any respective original responses ("unanswered

secondary requests ");

13.   The network probe terminal of Claim 11 further comprising cache

module for activating terminal agent local cache in case the original

browser local cache ("original cache") has been used in response to

unanswered secondary requests;

14. The network probe terminal of Claim 13 further comprising a retrieval

module for addressing via the communication line to appropriate Internet

server and receiving respective simulated responses relating to

unanswered secondary requests if the virtual local cache does not contain

data.

15. The network probe terminal of Claim 11 further comprising an

electronic message module for selecting identified data packets data

relating to network messages e.g. e-mail ("messages data"), transforming

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the message data into text data file, and displaying text data file on terminal.

16. The network probe terminal of Claim 11 wherein the given IP address is identified by the communication line provider (ISP).

17. The network probe terminal of Claim 11 wherein the given IP address is identified by the communication line owner.

18. The network probe terminal of Claim 11 wherein the given IP addresses are addresses of web site visitors and identified by the web site owner.